

Package ‘processmapR’

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Type Package

Title Construct Process Maps Using Event Data

Version 0.5.8

Description

Visualize event logs using directed graphs, i.e. process maps. Part of the 'bupaR' framework.

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LinkingTo Rcpp, BH

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URL <https://bupar.net/>, <https://github.com/bupaverse/processmapR/>,
<https://bupaverse.github.io/processmapR/>

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Author Gert Janssenswillen [aut],
 Gerard van Hulzen [ctb],
 Benoît Depaire [cre],
 Felix Mannhardt [ctb],
 Thijs Beuving [ctb],
 urvikalia [ctb],
 Hasselt University [cph]

Maintainer Benoît Depaire <benoit.depaire@uhasselt.be>

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 custom

Custom map profile

Description

Function to create a custom map profile based on some event log attribute.

Usage

```
custom(
  FUN = mean,
  attribute,
  units = "",
  color_scale = "PuBu",
  color_edges = "dodgerblue4"
)
```

Arguments

<code>FUN</code>	A summary function to be called on the provided event attribute, e.g. mean, median, min, max. <code>na.rm = T</code> by default.
<code>attribute</code>	The name of the case attribute to visualize (should be numeric)
<code>units</code>	Character to be placed after values (e.g. EUR for monetary euro values)
<code>color_scale</code>	Name of color scale to be used for nodes. Defaults to PuBu. See <code>Rcolorbrewer::brewer.pal.info()</code> for all options.
<code>color_edges</code>	The color used for edges. Defaults to dodgerblue4.

Details

If used for edges, it will show the attribute values which related to the out-going node of the edge.#'

Examples

```
## Not run:
library(eventdataR)
library(processmapR)
data(traffic_fines)
# make sure the amount attribute is propagated forward in each trace
# using zoo::na.locf instead of tidyr::fill since it is much faster
# still the whole pre-processing is still very slow
library(zoo)

traffic_fines_prepared <- traffic_fines %>%
  filter_trace_frequency(percentage = 0.8) %>%
  group_by_case() %>%
  mutate(amount = na.locf(amount, na.rm = F)) %>%
  ungroup_eventlog()
```

```
process_map(traffic_fines_prepared, type_nodes = custom(attribute = "amount", units = "EUR"))

## End(Not run)
```

dotted_chart

Dotted Chart

Description

A dotted chart is a graph in which each activity instance is displayed with a point (dot). The x-axis refers to the time aspect, while the y-axis refers to cases.

Usage

```
dotted_chart(
  log,
  x = c("absolute", "relative", "relative_week", "relative_day"),
  sort = c("auto", "start", "end", "duration", "start_week", "start_day"),
  color = NULL,
  units = c("auto", "secs", "mins", "hours", "days", "weeks"),
  add_end_events = FALSE,
  scale_color = bupaR::scale_color_discrete_bupaR,
  plotly = FALSE,
  eventlog = deprecated()
)
```

```
## S3 method for class 'eventlog'
```

```
dotted_chart(
  log,
  x = c("absolute", "relative", "relative_week", "relative_day"),
  sort = c("auto", "start", "end", "duration", "start_week", "start_day"),
  color = NULL,
  units = c("auto", "secs", "mins", "hours", "days", "weeks"),
  add_end_events = FALSE,
  scale_color = bupaR::scale_color_discrete_bupaR,
  plotly = FALSE,
  eventlog = deprecated()
)
```

```
## S3 method for class 'activitylog'
```

```
dotted_chart(
  log,
  x = c("absolute", "relative", "relative_week", "relative_day"),
  sort = c("auto", "start", "end", "duration", "start_week", "start_day"),
  color = NULL,
```

```

    units = c("auto", "secs", "mins", "hours", "days", "weeks"),
    add_end_events = FALSE,
    scale_color = bupaR::scale_color_discrete_bupaR,
    plotly = FALSE,
    eventlog = deprecated()
)

## S3 method for class 'grouped_eventlog'
dotted_chart(
  log,
  x = c("absolute", "relative", "relative_week", "relative_day"),
  sort = c("auto", "start", "end", "duration", "start_week", "start_day"),
  color = NULL,
  units = c("auto", "secs", "mins", "hours", "days", "weeks"),
  add_end_events = FALSE,
  scale_color = bupaR::scale_color_discrete_bupaR,
  plotly = FALSE,
  eventlog = deprecated()
)

## S3 method for class 'grouped_activitylog'
dotted_chart(
  log,
  x = c("absolute", "relative", "relative_week", "relative_day"),
  sort = c("auto", "start", "end", "duration", "start_week", "start_day"),
  color = NULL,
  units = c("auto", "secs", "mins", "hours", "days", "weeks"),
  add_end_events = FALSE,
  scale_color = bupaR::scale_color_discrete_bupaR,
  plotly = FALSE,
  eventlog = deprecated()
)

```

Arguments

log	log : Object of class log or derivatives (grouped_log , eventlog , activitylog , etc.).
x	character (default "absolute"): Value to plot on x-axis: "absolute" time or "relative" time (since start of week: "relative_week", since start of day: "relative_day").
sort	character (default "auto"): Ordering of the cases on y-axis: "auto" (default, see Details), "start", "end", "duration", "start_week", or "start_day".
color	character (default NULL): Attribute to use for coloring the activity instances (dots). This attribute should be present in log. Default (NULL) is the activity identifier (activity_id()). Use NA for no colors.
units	character (default "auto"): Time units to use on the x-axis in case of relative time: "auto" (default, see Details), "secs", "mins", "hours", "days", or "weeks".

add_end_events	logical (default FALSE): Whether to add dots for the complete lifecycle event with a different shape.
scale_color	ggplot2 scale function (default <code>scale_color_discrete_bupaR</code>): Set color scale. Defaults to <code>scale_color_discrete_bupaR</code> . Replaced with <code>scale_color_discrete</code> when more than 26 activities are present.
plotly	logical (default FALSE): Return a plotly object, instead of a ggplot2.
eventlog	[Deprecated] ; please use <code>log</code> instead.

Details

When setting `sort` to "auto", the ordering of cases is done automatically, based on the specified value of `x`:

- `x = "absolute"`: `sort = "start"`,
- `x = "relative"`: `sort = "duration"`,
- `x = "relative_week"`: `sort = "start_week"`,
- `x = "relative_day"`: `sort = "start_day"`.

When setting `units` to "auto", the time units on the x-axis is done automatically, based on the specified value of `x`:

- `x = "absolute"`: `units = "weeks"`,
- `x = "relative"`: `units = "weeks"`,
- `x = "relative_week"`: `units = "secs"`,
- `x = "relative_day"`: `units = "secs"`.

Methods (by class)

- `dotted_chart(eventlog)`: Create dotted chart for an [eventlog](#).
- `dotted_chart(activitylog)`: Create dotted chart for an [activitylog](#).
- `dotted_chart(grouped_eventlog)`: Create dotted chart for a [grouped_eventlog](#).
- `dotted_chart(grouped_activitylog)`: Create dotted chart for a [grouped_activitylog](#).

Examples

```
library(processmapR)
library(eventdataR)

patients %>%
  dotted_chart(x = "absolute", sort = "start", color = "employee")
```

export_graph	<i>Export a graph to various image formats</i>
--------------	--

Description

Export a graph to various image formats

Usage

```
export_graph(  
    graph,  
    file_name = NULL,  
    file_type = NULL,  
    title = NULL,  
    width = NULL,  
    height = NULL  
)
```

Arguments

graph	A graph object of class dgr_graph.
file_name	The name of the exported file (including it's extension).
file_type	The type of file to be exported. Options for graph files are: png, pdf, svg, and ps.
title	An optional title for the output graph.
width	Output width in pixels or NULL for default. Only useful for export to image file formats png, pdf, svg, and ps.
height	Output height in pixels or NULL for default. Only useful for export to image file formats png, pdf, svg, and ps.

export_map	<i>Export process map to pdf, png, ps or svg.</i>
------------	---

Description

Export process map to pdf, png, ps or svg.

Usage

```
export_map(  
    map,  
    file_name = NULL,  
    file_type = NULL,  
    title = NULL,  
    width = NULL,  
    height = NULL  
)
```

Arguments

map	A process_map created with <code>process_map</code> and argument <code>render = F</code> .
file_name	The name of the exported file (including its extension).
file_type	The type of file to be exported. Options for graph files are: png, pdf, svg, and ps.
title	An optional title for the output graph.
width	Output width in pixels or NULL for default. Only useful for export to image file formats png, pdf, svg, and ps.
height	Output height in pixels or NULL for default. Only useful for export to image file formats png, pdf, svg, and ps.

frequency

Frequency map profile

Description

Function to create a frequency profile for a process map.

Usage

```
frequency(
  value = c("absolute", "relative", "absolute-case", "relative-case",
            "relative-antecedent", "relative-consequent"),
  color_scale = "PuBu",
  color_edges = "dodgerblue4"
)
```

Arguments

value	The type of frequency value to be used: absolute, relative (percentage of activity instances) or relative_case (percentage of cases the activity occurs in).
color_scale	Name of color scale to be used for nodes. Defaults to PuBu. See <code>Rcolorbrewer::brewer.pal.info()</code> for all options.
color_edges	The color used for edges. Defaults to dodgerblue4.

get_activities	<i>Get data values for activities and flows from process map</i>
----------------	--

Description

Get data values for activities and flows from process map

Usage

```
get_activities(process_map)
```

```
get_flows(process_map)
```

Arguments

process_map	An object created using process_map function. Can both be a rendered or not rendered object.
-------------	--

layout_pm	<i>Configure layout parameters for process map</i>
-----------	--

Description

Configure layout parameters for process map

Usage

```
layout_pm(fixed_positions = NULL, edge_weight = FALSE, edge_cutoff = 0)
```

Arguments

fixed_positions	When specified as a data.frame with three columns 'act', 'x', and 'y' the position of nodes is fixed. Note that using this option switches to the 'neato' layout engine.
edge_weight	When TRUE then the frequency with which an edge appears in the process map has influence on the process map layout. Edges with higher frequency get higher priority in the layout algorithm, which increases the visibility of 'process highways'. Note that this has no effect when using the 'fixed_positions' parameters.
edge_cutoff	(numeric) Number between 0 and 1. Edges with a relative frequency below the cut off are not considered at all when calculating the layout. This may create very long and complicated edge routings when choosen too high. Note that this has no effect when using the 'fixed_positions' parameters.

lined_chart

*Lined Chart***Description**

A lined chart is a graph in which each activity instance is displayed with a line. The x-axis refers to the time aspect, while the y-axis refers to cases.

Usage

```
lined_chart(
  log,
  x = c("absolute", "relative"),
  sort = c("auto", "start", "end", "duration"),
  color = NULL,
  units = c("auto", "secs", "mins", "hours", "days", "weeks"),
  line_width = 2,
  plotly = FALSE,
  scale_color = bupaR::scale_color_discrete_bupaR,
  eventlog = deprecated()
)

## S3 method for class 'eventlog'
lined_chart(
  log,
  x = c("absolute", "relative"),
  sort = c("auto", "start", "end", "duration"),
  color = NULL,
  units = c("auto", "secs", "mins", "hours", "days", "weeks"),
  line_width = 2,
  plotly = FALSE,
  scale_color = bupaR::scale_color_discrete_bupaR,
  eventlog = deprecated()
)

## S3 method for class 'activitylog'
lined_chart(
  log,
  x = c("absolute", "relative"),
  sort = c("auto", "start", "end", "duration"),
  color = NULL,
  units = c("auto", "secs", "mins", "hours", "days", "weeks"),
  line_width = 2,
  plotly = FALSE,
  scale_color = bupaR::scale_color_discrete_bupaR,
  eventlog = deprecated()
)
```

```

## S3 method for class 'grouped_eventlog'
lined_chart(
  log,
  x = c("absolute", "relative"),
  sort = c("auto", "start", "end", "duration"),
  color = NULL,
  units = c("auto", "secs", "mins", "hours", "days", "weeks"),
  line_width = 2,
  plotly = FALSE,
  scale_color = bupaR::scale_color_discrete_bupaR,
  eventlog = deprecated()
)

## S3 method for class 'grouped_activitylog'
lined_chart(
  log,
  x = c("absolute", "relative"),
  sort = c("auto", "start", "end", "duration"),
  color = NULL,
  units = c("auto", "secs", "mins", "hours", "days", "weeks"),
  line_width = 2,
  plotly = FALSE,
  scale_color = bupaR::scale_color_discrete_bupaR,
  eventlog = deprecated()
)

```

Arguments

log	log : Object of class log or derivatives (grouped_log , eventlog , activitylog , etc.).
x	character (default "absolute"): Value to plot on x-axis: "absolute" time or "relative" time.
sort	character (default "auto"): Ordering of the cases on y-axis: "auto" (default, see Details), "start", "end", or "duration".
color	character (default NULL): Attribute to use for coloring the activity instances (dots). This attribute should be present in log . Default (NULL) is the activity identifier (activity_id()). Use NA for no colors.
units	character (default "auto"): Time units to use on the x-axis in case of relative time: "auto" (default, see Details), "secs", "mins", "hours", "days", or "weeks".
line_width	numeric (default 2): The width of lines.
plotly	logical (default FALSE): Return a plotly object, instead of a ggplot2 .
scale_color	ggplot2 scale function (default scale_color_discrete_bupaR): Set color scale. Defaults to scale_color_discrete_bupaR . Replaced with scale_color_discrete when more than 26 activities are present.
eventlog	[Deprecated] ; please use log instead.

Details

When setting sort to "auto", the ordering of cases is done automatically, based on the specified value of x:

- x = "absolute": sort = "start",
- x = "relative": sort = "duration".

When setting units to "auto", the time units on the x-axis is done automatically, based on the specified value of x:

- x = "absolute": units = "weeks",
- x = "relative": units = "weeks".

Methods (by class)

- `lined_chart(eventlog)`: Create lined chart for an [eventlog](#).
- `lined_chart(activitylog)`: Create lined chart for an [activitylog](#).
- `lined_chart(grouped_eventlog)`: Create lined chart for a [grouped_eventlog](#).
- `lined_chart(grouped_activitylog)`: Create lined chart for a [grouped_activitylog](#).

See Also

[dotted_chart\(\)](#)

Examples

```
library(processmapR)
library(eventdataR)

patients %>%
  lined_chart(x = "absolute", color = "employee")
```

performance

Performance map profile

Description

Function to create a performance map profile to be used as the type of a process map. It results in a process map describing process time.

Usage

```
performance(
  FUN = mean,
  units = c("mins", "secs", "hours", "days", "weeks", "months", "quarters", "semesters",
            "years"),
  flow_time = c("idle_time", "inter_start_time"),
  color_scale = "Reds",
  color_edges = "red4",
  ...
)
```

Arguments

FUN	A summary function to be called on the process time of a specific activity, e.g. mean, median, min, max
units	The time unit in which processing time should be presented (mins, hours, days, weeks, months, quarters, semesters, years. A month is defined as 30 days. A quarter is 13 weeks. A semester is 26 weeks and a year is 365 days
flow_time	The time to depict on the flows: the inter start time is the time between the start timestamp of consecutive activity instances, the idle time is the time between the end and start time of consecutive activity instances.
color_scale	Name of color scale to be used for nodes. Defaults to Reds. See <code>Rcolorbrewer::brewer.pal.info()</code> for all options.
color_edges	The color used for edges. Defaults to red4.
...	Additional arguments too FUN

plot.process_matrix *Process Matrix Plot*

Description

Visualize a precedence matrix. A generic plot function for precedences matrices.

Usage

```
## S3 method for class 'process_matrix'
plot(x, ...)
```

Arguments

x	Precedence matrix
...	Additional paramters

Value

A ggplot object, which can be customized further, if deemed necessary.

```
precedence_matrix_absolute
```

Precedence Matrix

Description

Construct a precedence matrix, showing how activities are followed by each other. This function computes the precedence matrix directly in C++ for efficiency. Only the type absolute of (`precedence_matrix`) is supported.

Usage

```
precedence_matrix_absolute(eventlog, lead = 1)
```

Arguments

<code>eventlog</code>	The event log object to be used.
<code>lead</code>	The distance between activities following/preceding each other.

```
processMapOutput
```

Widget output function for use in Shiny

Description

Widget output function for use in Shiny

Usage

```
processMapOutput(outputId, width = "100%", height = "400px")
```

Arguments

<code>outputId</code>	Output variable to read from.
<code>width</code>	A valid CSS unit for the width or a number, which will be coerced to a string and have px appended.
<code>height</code>	A valid CSS unit for the height or a number, which will be coerced to a string and have px appended.

```
processmapR
```

processmapR - Process Maps in R

Description

This package provides several useful techniques process visualization.

`process_map`*Process Map*

Description

A function for creating a process map of an event log.

Usage

```
process_map(  
  log,  
  type = frequency("absolute"),  
  sec = NULL,  
  type_nodes = type,  
  type_edges = type,  
  sec_nodes = sec,  
  sec_edges = sec,  
  rankdir = "LR",  
  render = T,  
  fixed_edge_width = F,  
  layout = layout_pm(),  
  eventlog = deprecated(),  
  ...  
)  
  
## S3 method for class 'eventlog'  
process_map(  
  log,  
  type = frequency("absolute"),  
  sec = NULL,  
  type_nodes = type,  
  type_edges = type,  
  sec_nodes = sec,  
  sec_edges = sec,  
  rankdir = "LR",  
  render = T,  
  fixed_edge_width = F,  
  layout = layout_pm(),  
  eventlog = deprecated(),  
  ...  
)  
  
## S3 method for class 'grouped_eventlog'  
process_map(  
  log,  
  type = frequency("absolute"),  
  sec = NULL,
```

```

    type_nodes = type,
    type_edges = type,
    sec_nodes = sec,
    sec_edges = sec,
    rankdir = "LR",
    render = T,
    fixed_edge_width = F,
    layout = layout_pm(),
    eventlog = deprecated(),
    ...
)

## S3 method for class 'activitylog'
process_map(
  log,
  type = frequency("absolute"),
  sec = NULL,
  type_nodes = type,
  type_edges = type,
  sec_nodes = sec,
  sec_edges = sec,
  rankdir = "LR",
  render = T,
  fixed_edge_width = F,
  layout = layout_pm(),
  eventlog = deprecated(),
  ...
)

```

Arguments

log	log: Object of class <code>log</code> or derivatives (<code>grouped_log</code> , <code>eventlog</code> , <code>activitylog</code> , etc.).
type	A process map type, which can be created with the functions <code>frequency</code> , <code>performance</code> and <code>custom</code> . The first type focusses on the frequency aspect of a process, while the second one focussed on processing time. The third one allows custom attributes to be used.
sec	A secondary process map type. Values are shown between brackets.
type_nodes	A process map type to be used for nodes only, which can be created with the functions <code>frequency</code> and <code>performance</code> . The first type focusses on the frequency aspect of a process, while the second one focussed on processing time.
type_edges	A process map type to be used for edges only, which can be created with the functions <code>frequency</code> and <code>performance</code> . The first type focusses on the frequency aspect of a process, while the second one focussed on processing time.
sec_nodes	A secondary process map type for nodes only.
sec_edges	A secondary process map type for edges only.

rankdir	The direction in which to layout the graph: "LR" (default), "TB", "BT", "RL", corresponding to directed graphs drawn from top to bottom, from left to right, from bottom to top, and from right to left, respectively.
render	Whether the map should be rendered immediately (default), or rather an object of type <code>dgr_graph</code> should be returned.
fixed_edge_width	If TRUE, don't vary the width of edges.
layout	List of parameters influencing the (automatic) layout of the process map. Use layout_pm to create a suitable parameter list.
eventlog	[Deprecated] ; please use <code>log</code> instead.
...	Deprecated arguments

Methods (by class)

- `process_map(eventlog)`: Process map for event log
- `process_map(grouped_eventlog)`: Process map for event log
- `process_map(activitylog)`: Process map for activitylog

Examples

```
## Not run:
library(eventdataR)
data(patients)
process_map(patients)

## End(Not run)
```

process_matrix	<i>Create process matrix</i>
----------------	------------------------------

Description

Create process matrix

Usage

```
process_matrix(log, type, ..., eventlog = deprecated())

## S3 method for class 'eventlog'
process_matrix(log, type = frequency(), ..., eventlog = deprecated())

## S3 method for class 'activitylog'
process_matrix(log, type = frequency(), ..., eventlog = deprecated())
```

Arguments

log	log: Object of class log or derivatives (grouped_log, eventlog, activitylog, etc.).
type	A process matrix type, which can be created with the functions frequency, performance and custom. The first type focusses on the frequency aspect of a process, while the second one focussed on processing time. The third one allows custom attributes to be used.
...	Other arguments
eventlog	[Deprecated] ; please use log instead.

Methods (by class)

- process_matrix(eventlog): Process matrix for event log
- process_matrix(activitylog): Process matrix for activity log

renderProcessMap	<i>Widget render function for use in Shiny</i>
------------------	--

Description

Widget render function for use in Shiny

Usage

```
renderProcessMap(expr, env = parent.frame(), quoted = FALSE)
```

Arguments

expr	an expression that generates a DiagrammeR graph.
env	the environment in which to evaluate expr.
quoted	is expr a quoted expression (with quote())? This is useful if you want to save an expression in a variable.

render_map

Render process map

Description

Render process map

Usage

```
render_map(
  map,
  layout = NULL,
  output = NULL,
  as_svg = FALSE,
  title = NULL,
  width = NULL,
  height = NULL
)
```

Arguments

map	A process_map created with process_map and argument render = F.
layout	A string specifying a layout type to use for node placement in this rendering. Possible layouts include: nicely, circle, tree, kk, and fr.
output	A string specifying the output type; graph (the default) renders the graph using the grViz() function and visNetwork renders the graph using the visnetwork() function.
as_svg	An option to render the graph as an SVG document.
title	An optional title for a graph when using output = "graph".
width	An optional parameter for specifying the width of the resulting graphic in pixels.
height	An optional parameter for specifying the height of the resulting graphic in pixels.

resource_map

Resource Map

Description

A function for creating a resource map of an event log based on handover of work.

Usage

```
resource_map(log, type, render, ..., eventlog = deprecated())

## S3 method for class 'eventlog'
resource_map(
  log,
  type = frequency("absolute"),
  render = T,
  ...,
  eventlog = deprecated()
)

## S3 method for class 'activitylog'
resource_map(
  log,
  type = frequency("absolute"),
  render = T,
  ...,
  eventlog = deprecated()
)
```

Arguments

log	log : Object of class <code>log</code> or derivatives (<code>grouped_log</code> , <code>eventlog</code> , <code>activitylog</code> , etc.).
type	A process map type, which can be created with the functions <code>frequency</code> and <code>performance</code> . The first type focusses on the frequency aspect of a process, while the second one focussed on processing time.
render	Whether the map should be rendered immediately (default), or rather an object of type <code>dgr_graph</code> should be returned.
...	Deprecated arguments
eventlog	[Deprecated] ; please use <code>log</code> instead.

Methods (by class)

- `resource_map(eventlog)`: Create resource map for eventlog
- `resource_map(activitylog)`: Create resource map for activity log

Examples

```
## Not run:
library(eventdataR)
data(patients)
resource_map(patients)

## End(Not run)
```

resource_matrix	<i>Resource Matrix</i>
-----------------	------------------------

Description

Construct a resource matrix, showing how work is handed over

Usage

```
resource_matrix(log, type, eventlog = deprecated())

## S3 method for class 'eventlog'
resource_matrix(
  log,
  type = c("absolute", "relative", "relative-antecedent", "relative-consequent"),
  eventlog = deprecated()
)

## S3 method for class 'activitylog'
resource_matrix(
  log,
  type = c("absolute", "relative", "relative-antecedent", "relative-consequent"),
  eventlog = deprecated()
)
```

Arguments

log	log : Object of class log or derivatives (grouped_log , eventlog , activitylog , etc.).
type	The type of resource matrix, which can be absolute, relative, relative_antecedent or relative_consequent. Absolute will return a matrix with absolute frequencies, relative will return global relative frequencies for all antecedent-consequent pairs. Relative_antecedent will return relative frequencies within each antecedent, i.e. showing the relative proportion of consequents within each antecedent. Relative_consequent will do the reverse.
eventlog	[Deprecated] ; please use log instead.

Methods (by class)

- resource_matrix(eventlog): Resource matrix of event log
- resource_matrix(activitylog): Resource matrix of activity log

Examples

```
## Not run:
library(eventdataR)
data(patients)
```

```
precedence_matrix(patients)

## End(Not run)
```

trace_explorer	<i>Trace Explorer</i>
----------------	-----------------------

Description

Different activity sequences in the log can be visualized with `trace_explorer()`. With the `type` argument, it can be used to explore frequent as well as infrequent traces. The `coverage` argument specifies how much of the log you want to explore. By default it is set at 0.2, meaning that it will show the most (in)frequent traces covering 20% of the log.

Usage

```
trace_explorer(
  log,
  coverage = NULL,
  n_traces = NULL,
  type = c("frequent", "infrequent"),
  coverage_labels = c("relative", "absolute", "cumulative"),
  abbreviate = TRUE,
  show_labels = TRUE,
  label_size = 3,
  scale_fill = bupaR::scale_fill_discrete_bupaR,
  raw_data = FALSE,
  plotly = FALSE,
  eventlog = deprecated(),
  .abbreviate = deprecated()
)

## S3 method for class 'eventlog'
trace_explorer(
  log,
  coverage = NULL,
  n_traces = NULL,
  type = c("frequent", "infrequent"),
  coverage_labels = c("relative", "absolute", "cumulative"),
  abbreviate = TRUE,
  show_labels = TRUE,
  label_size = 3,
  scale_fill = bupaR::scale_fill_discrete_bupaR,
  raw_data = FALSE,
  plotly = FALSE,
  eventlog = deprecated(),
```

```

    .abbreviate = deprecated()
  )

## S3 method for class 'activitylog'
trace_explorer(
  log,
  coverage = NULL,
  n_traces = NULL,
  type = c("frequent", "infrequent"),
  coverage_labels = c("relative", "absolute", "cumulative"),
  abbreviate = TRUE,
  show_labels = TRUE,
  label_size = 3,
  scale_fill = bupaR::scale_fill_discrete_bupaR,
  raw_data = FALSE,
  plotly = FALSE,
  eventlog = deprecated(),
  .abbreviate = deprecated()
)

```

Arguments

log	log : Object of class log or derivatives (eventlog or activitylog).
coverage	numeric (default 0.2): The percentage coverage of the trace to explore. Defaults to 0.2 (0.05) most (in)frequent.
n_traces	integer : Instead of setting coverage, an exact number of traces can be set. Should be an integer larger than 0.
type	character (default "frequent"): "frequent" traces first, or "infrequent" traces first?
coverage_labels	character (default "relative"): Change the labels to be shown on the right of the process variants. These can be "relative" frequency (default), "absolute", or "cumulative". Multiple labels can be selected at the same time.
abbreviate	logical (default TRUE): If TRUE, abbreviate activity labels.
show_labels	logical (default TRUE): If FALSE, activity labels are not shown.
label_size	numeric (default 3): Font size of labels.
scale_fill	ggplot2 scale function (default scale_fill_discrete_bupaR): Set color scale. Defaults to scale_fill_discrete_bupaR . Replaced with scale_fill_discrete when more than 26 activities are present.
raw_data	logical (default FALSE): Return raw data instead of graph.
plotly	logical (default FALSE): Return a plotly object, instead of a ggplot2.
eventlog	[Deprecated] ; please use log instead.
.abbreviate	[Deprecated] ; please use abbreviate instead.

Methods (by class)

- `trace_explorer(eventlog)`: Trace explorer for an [eventlog](#).
- `trace_explorer(activitylog)`: Trace explorer for an [activitylog](#).

Examples

```
library(processmapR)
library(eventdataR)

patients %>%
  trace_explorer(coverage = 0.8)
```

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